Security Advisory Report
October 26, 2021

Realtek RtsUpx USB utility driver Vulnerability
(CVE-2021-36922/CVE-2021-36923/CVE-2021-36924/CVE-2021-36925)

Release Date
2021/11/01

Affected Projects
Realtek RtsUpx USB utility driver for Camera/Hub/Audio

Affected Versions
RtsUpx.sys version 1.14.0.0 and below

CVE ID
CVE-2021-36922
CVE-2021-36923
CVE-2021-36924
CVE-2021-36925

Description
The following security issues was found in IOCTL requests provided by RtsUpx driver:
1. Input data from user mode is not properly validated and could lead to a system crash.
2. Vulnerable to TOCTOU attack which may cause pool overflow.
3. Unauthorised access to arbitrary USB devices.
4. Access to arbitrary IN/OUT or physical memory from a non-administrator user.

Vulnerability Type
System Crash
Gain Privileges
Attack Type
Local

Security Risk
High

Patch
RtsUpx v2.0.0.0

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